

SYSTEM AND METHOD FOR SECURE DUPLEX BROWSER COMMUNICATION OVER DISPARATE NETWORKS

ABSTRACT OF THE DISCLOSURE

A system and method for secure duplex browser communication over disparate networks provides duplex communication between applications such as a browser program running on a client computer system and server applications running on a server computer system. Standard web-based protocols used with the duplex communication allow use of built-in browser program features such as related to security and navigation that would otherwise be specially provided. Given the request-response nature of many of the standard web-based protocols, use of standard web-based protocols for duplex communication has not been readily attainable in the past. A duplex transport system to provide the duplex communication includes a client component running on the client computer system and a server component running on the server computer system. The browser program controls one or more browser applications configured to run on the client computer system. One or more instances of the client component and one or more instances of the server component are run to form one or more sessions each having session identifiers. Each session has one or more data pipes, which are sub-sessions. A particular data pipe has a pipe identifier and provides two independent data paths of duplex data traffic between the browser applications that are communicatively linked to the instance of the client component and the server applications communicatively linked to the instance of the server component that are both associated with the respective session of the particular data pipe. Messages of the duplex data traffic contain both session and data pipe identifiers.

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